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MAMSSGGSGGGVPEQEDSVLFRRGTGQSDDSDIWDDTALIKAYDKAVAS

FKHALKNGDICETSGKPKTTPKRKPAKKNKSQKKNTAASLQQWKVGDKCSAIWSEDGCIY

PATIASIDFKRETCVVVYTGYGNREEQNLSDLLSPICEVANNIEQNAQENENESQVSTDE

SENSRSPGNKSDNIKPKSAPWNSFLPPPPPMPGPRLGPGKPGLKFNGPPPPPPPPPHLL

SCWLPPFPSGPPIIPPPPPICPDSLDDADALGSMLISWYMSGYHTGYYMGFRQNQKEGRC

SHSLN

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CGGGGCCCCACGCTGCGCACCCGCGGGTTTGCTATGGCGATGAGCAGCGGCGGCAGTGGT GGCGGCGTCCCGGAGCAGAGGATTCCGTGCTGTTCCGGCGCGCACAGGCCAGAGCGAT GATTCTGACATTTGGGATGATACAGCACTGATAAAAGCATATGATAAAAGCTGTGGCTTCA TTTAAGCATGCTCTAAAAGAATGGTGACATTTGTGAAACCTTCGGGTAAACCAAAAACCACA **CCTAAAAGAAAACCTGCTAAGAAGAATAAAAGCCAAAAGAAGAATACTGCAGCTTCCTTA** <u>CAACAGTGGAAAATGTTCTGCCATTTGGTCAGAAGACGGTTGCATTTAC</u> CCAGCTACCATTGCTTCAATTGATTTTAAGAGAGAAACCTGTGTTGTGTTTACACTGGA TATGGAAATAGAGAGGAGCAAAATCTGTCCGATCTACTTTCCCCAATCTGTGAAGTAGCT <u>AATAATATAGAACAGAATGCTCAAGAGAATGAAAATGAAAAGCCAAGTTTCAACAGATGAA</u> <u>AGTGAGAACATÇAGGTCTÇCTGGAAATAAATCAGATAACATÇAAGCCCAAATCTGCTCCA</u> <u>TGGAACCCCTTTCT</u>CCCTCCACCACCCCCAT<u>GCCAGGCCA</u>AGACTGGGACCAGGAAA TCATGCTGGCTGCCTCCATTTCCTTCTGGACCACCAATAATTCCCCCACCACCACCATA TGTCCAGATTCTCTTGATGATGCTGATGCTTTGGGAAGTATGTTAATTTCATGGTACATG AGTGGCTATCATACTGGCTATTATATGGGTTT TAGACAAAATCAAAAAGAAGGAAGGTGC TCACATTCCTTAAATTAAGGAGAAATGCTGGCATAGAGCAGCACTAAATGACACCACTAA AGAAACGATCAGACAGATCTGGAATGTGAAGCGTTATAGAAGATAACTGGCCTCATTTCT TCAAAATATCAACTGTTGGGAAAGAAAAAAGGAAGTGGAATGGGTAACTCTTCTTGATTA AAAGTTATGTAATAACCAAATGCAATGTGAAATATTTTACTGGACTCTTTTGAAAAACCA TCTGTAAAAGACTGAGGTGGGGGTGGGAGGCCAGCACGGTGGTGAGGCAGTTGAGAAAAT AGAAGGGTGTTGTAGTTTATAAAAGACTGTCTTAATTTGCATACTTAAGCATTTAGGAAT GTGGCAAAATGTTACAGAATCTAACTGGTGGACATGGCTGTTCATTGTACTGTTTTTTTC ΤΑΤ**CTTCTATATGTTTAAAAGTATATAATAAAAA ል**ልልልልልልልልልልልልልልልልልልል

FIGURE 2A

AATTTTTAAATTTTTTGTAGAGACAGGGTCTCATTATGTTGCCCAGGGTGGTGTCAAGCTCCA GGTCTCAAGTGATCCCCCTACCTCCGCCTCCCAAAGTTGTGGGATTGTAGGCATGAGCCACTG CAAGAAAACCTTAACTGCAGCCTAATAATTGTTTTCTTTGGGATAACTTTAAAGTACATTAA ANGACTATCAACTTAATTTCTGATCATATTTTGTTGAATAAAATAAGTAAAATGTCTTGTGAA $\texttt{TTTTTTTTAACTTCCTTTATTTTCCTTACAG*} \underbrace{\texttt{GGTTTCAGACAAAATCAAAAAAGAAGGAAGG}}$ TGCTCACATTCCTTANATTAAGGA*GTAAGTCTGCCAGCATTATGAAAGTGAATCTTACTTTT GTAAAACTTTATGGTTTGTGGAAAACAAATGTTTTTGAACAGTTAAAAAGTTCAGATGTTAGA AAGTTGAAAGGTTAATGTAAAACAATCAATATTAAAGAATTTTGATGCCAAAACTATTAGATA ATACTTTCACAATAAAGAGCTTTAGGATATGATGCCATTTTATATCACTAGTAGGCAGACCAG CAGACTTTTTTTTTTTTGTGATATGGGATAACCTAGGCATACTGCACTGTACACTCTGACATAT GAAGTGCTCTAGTCAAGTTTAACTGGTGTCCACAGAGGACATGGTTTAACTGGAATTCGTCAA $\texttt{GCCTCTGGTTCTAATTTCTCATTTGCAG} * \underline{\texttt{GAAA}} \texttt{TGCTGGCATA}\underline{\texttt{GAGCAGCACTAAATGACACC}}$ <u>ACTAAAGAAACGA</u>#CAGACACATCTGGAATGTGAAGCGT<u>TATAGAAGA</u>TAACTGGCCTCATTT <u>AAAGTTATGTAATAACCAAATGCAATGTGAAATATTTTACTGGACTCTTTTGAAAAAC</u> GAGAACGGTGTTGTAGTTTATAAAAGACTGTCTTAATTTGCATACTTAAGCATTTAGG <u>AUGUGGGAAAAUGTTACAGAATCTAACTGGTGGACATGGCTGTTCATTGTACTGTTTT</u> <u>ΤΕΤΑΤΕΤΤΑΤΑΤΕΤΤΑΑΑΑΑΕΤΑΤΑΙΑΑΙΑΑΙΑΑΙΑΑΙΤΑΙΑΑΙΤΤ</u>

FIGURE 2B

CGGGGCCCACGCTQCGCATCCGCGGGTTTGCTATGGCGATGAGCAGCGGCGGCAGTGGT <u>OATTCTGACATTTGGGATGATACAGCACTGATAAAAGCATATGATAAAGCTG</u>TGGC<u>TTCA</u> ŢŢŢĸĸĠĊĸŢĠĊŢĊŢĸĸĸĠĸĸŢĠĠŢĠĸĊĸŢŢĠŢĠĸĸĸĊŢŢĊĠĠĠŢĸĸĸĊĊĸĸĸĸĸĊĸĸĊĸ <u>CCTANANGANAECTGCTAAGAAGAATAAAAAGCCAAAAGAATACTGCAGGTTCCTTA</u> CNACAG*TGGAAAGTTGGGGACAAATGTTCTGCCATTTGGTCAGAAGACGGTTGCATTTAC CCAGCTACCATTGCTTCAATTGATTTTAAGAGAGAAAACCTGTGTTGTGGTTTACACTGGA TATGGANATAGAGAGGAGCANAATCTGTCCGATCTACTTTCCCCAATCTGTGAAGTAGCT <u>AATAATAGAACAGAATGCTCAAGAG*AATGAAAATGAAAAGCCAAGTTTCAACAGATGAA</u> AGTGAGAACTCCAGGTCTCCTGGAAATAAATCAGATAACATCAAGCCCAAATCTGCTCCA TGGAACTCTTTTCTCCCTCCACCACCCCCATGCCAGGCCAAGACTGGGACCAGGAAAG *CCAGGTCTAAAATTCAATGGCCCACCACCACCACCACCACCACCACCACCACCTTACTA TCATGCTGGCTGCCTCCATTTCCTTCTGGACCACCA*ATAATTCCCCCACCACCACCATA TGTCCAGATTCTCTTGATGATGCTGATGCTTTGGGAAGTATGTTAATTTCATGGTACATG <u>AGTGGCTATCATACTGGCTATTATATG*GGTTTCAGACAAAATCAAAAAGAAGGAAGGTGC</u> TCACATTCCTTAAATTAAGGA*GAAATGCTGGCATAGAGCAGCACTAAATGACACCACTAA AGNAACGATCAGACAGATCTGGAATGTGAAGCGTTATAGAAGATAACTGGCCTCATTTCT TCANAATATCNAGTGTTGGGAAAGAAAAAAGGAACTGGAATGGGTAACTCTTCTTGATTA ANAGTTATGTAATAACCAAATGCAATGTGAAATATTTTACTGGACTCTTTTGAAAAAC TTTGAATGTGGATTAGAATGATATTGGATAATTATTGGTAATTTATGGCCTGT GAGNAGGGTGTTGTAGTTATAANAGACTGTCTTNATTTGCATNCTTAAGCNTTTAGG

ANTGANGTGTTNGNGTGTCTTNAAATGTTTCAANTGGTTTAACNAATGTATGTGAGGCGT ATGTGGCAAAATGTTACAGAATCTAACTGGTGGACATGGCTGTTCATTGTACTGTTTTT ΤΟΥΛΎCΤΤΟΤΑΥΛΎGΤΤΤΑΛΛΑΘΤΑΤΑΤΑΑΤΑΑΛΑΑΤΑΨΤΥΑΤΤΤΤΤΤΤΑΤΑΛΑΑΑΑΑ

AATTTTTAAAATTTTTTGTAGAGACAGGGTCTCATTATGTTGCCCAGGGTGGTGAAGCTCCA GGTCTCAAGTGATCCCCCTACCTCCGCCTCCCAAAGTTGTGGGGATTGTAGGCATGAGCCACTG CAAGAAAACCTTAACTGCAGCCTAATAATTGTTTTCTTTGGGATAACTTTTAAAGTACATTAA AAGACTATCAACTTAATTTCTGATCATATTTTGTTGAATAAAATAAGTAAAATGTCTTGTGAA TTTTTTTTAACTTCCTTTATTTTCCTTACAG*GGTTTCAGACAAAATCAAAAAGAAGGAAGG TGCTCACATTCCTTAAATTAAGGA*GTAAGTCTGCCAGCATTATGAAAGTGAATCTTACTTTT GTAAAACTTTATGGTTTGTGGAAAACAAATGTTTTTGAACAGTTAAAAAGTTCAGATGTTAAA AAGTTGAAAGGTTAATGTAAAACAATCAATATTAAAGAATTTTGATGCCAAAACTATTAGATA ATACTTTCACAATAAAGAGCTTTAGGATATGATGCCATTTTATATCACTAGTAGGCAGACCAG. GAAGTGCTCTAGTCAAGTTTAACTGGTGTCCACAGAGGACATGGTTTAACTGGAATTCGTCAA GCCTCTGGTTCTAATTTCTCATTTGCAG*GAAATGCTGGCATAGAGCAGCACTAAATGACACC. <u>ACTAAACAAACGATCAGACAGATCTGGAATGTGAAGCGTTATAGAAGATAACTGG</u>CCT<u>CATT</u>T CTTCAAAATATCAAGTGTTGGGAAAGAAAAAGGAAGTGGAATGGGTAACTCTTGATTA AAAGTTATGTAATAACCAAATGCAATGTGAAATATTTTACTGGACTCTTTTGAAAAAC GAGAAGGGTGTTGTAGTTTATAAAAGACTGTCTTAATTTGCATACTTAAGCATTTAGG <u>ATGTGGCANAATGTTACAGAATCTAACTGGTGGACATGGCTGTTCATTGTACTGTTTTT</u> ΤΟΤΑΤΟΤΤΟΤΑΤΑΤΟΤΤΑΑΑΑΑ ΘΤΑΤΑΤΑΛΑΑΑΑΤΑΤΤΤΑΑΤΤΤ

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C212

ACCTGANCCCAGANGGTCAAGGCTGCAGTGAGACGAGATTGCNCCACTGCCCTCC ACCCTGGG'IGATAAGAGTGGGACCCTGTNTCAAAACATACACACACACACACACACA TCTCTCTCTCTCAAAAACACTTGGTCTGTTATTTTTNCGAAATTGTCAGTCAT AGTTATCTGTTAGACCAAAGCTGNGTAAGNACATTTATTACATTGCCTCCTACAA CTTCATCAGCTAATGTATTGCTATATAGCAATTACATATNGGNATATATTATCT TNAGGGGATGGCCANGTNATAAAACTGTCACTGAGGAAAGGA

C272

CCTCCCACCTNAGCCTCCCCAGTAGCTAGGACTATAGGCGTGCNCCACCAAGCTC AGCTAT"LTT"LNN.TAT"L"LAGTAGAGACGGGGTT"LCGGCANGCTTAGGCCTCGTNTC TGTG1'AGATATT1'AT1'CCCCCTCCCCCTTGGAAAAG1'AAG1'AAGCTCCTACTAGG AATTTAAAACCTGCTTGATCTATATAAAGACAAACAAGGAAAGACAAGGG GCAGGAAGGAAGGCAGATC

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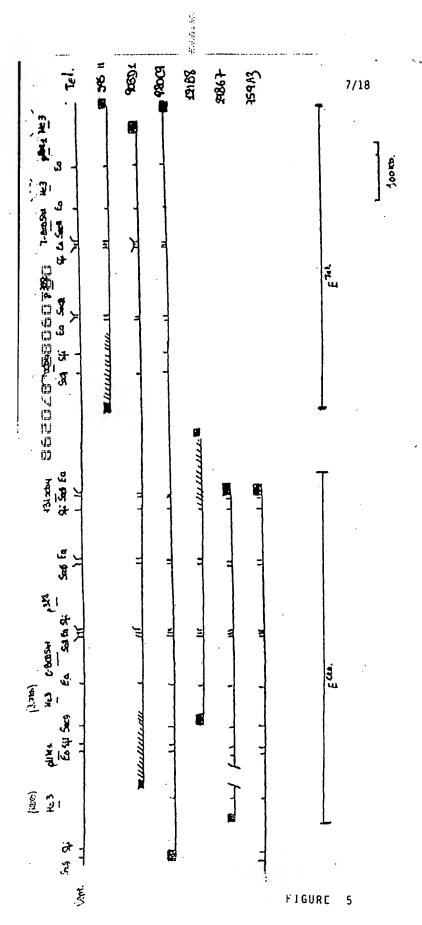
ACACACACACAGACTTAATCTGTTTACAGAAATAAAAGGAATAAAATACCGTT TCTACTATACACCAAAACTAGCCATCTTGAC

C161

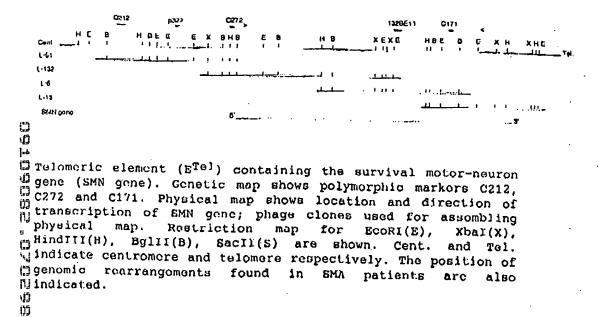
CCCTGAGAAGGCTTCCTCCTGAGTATGCATAAACATTCACAGCTTGCATGCGTGT GTGTGTGTGTGTGTGTATGTTTGCTTGCACTGTAAAAACAATTGCAACATC ACTTCATAAGTCAAACAATCAGGCTGGGTGCAGTAGCTCATGCCTGTAATCCCAG CCCTTTGGGAGGCCGAGCTGGGCAGATCGA

C171

TCCACCCGCCTTGGCCTCCCAAAGCNCTGGGATTACAGGCGTGACTGCCGCACCC AGCTGTAAACTGGNT"!'NNTAATGGT'AGATTTNAGGTATTAACAAT'AGAT'AAAAAA GATACTTTTNGGCATACTGTGTATTGGGATGGGGTTAGAACAGGTGTNCTACCCA TNACTCATACCTTCATAGTGGANCAGATACATAGTCTAAATCAAAATGTTTAAAC TTTTTATGTCACTTGCTGTC



the 5413 legion. for Egg (Eg), Socil (Socis), Stil (Sp.). Numbers under parenteess indicate attiction map. YASS are below the Teloporite element (E^{Tel}), (extronorite element (E^{Co.}) above the . Robes are indicated He 3; the nothicinal flagment declared CELKTIONS (CENT.), Ryndian rep of



Game dosage analysis of the 5q13 region with the 132SE11 plasmid cone in SMA type I patient. Total human DNA from SMA family was digested with HindIII for Southern blotting. Filter was consocutively hybridized with 132SE11 (A) and JK53 probes (B). A significant decrease in 132SE11 band intensity, which indicated the deletion, compared with their dramats. F/Father, M/Mother, A/affected

MAMSSGGSGGGVPEQEDSVLFRRGTGQSDDSDIWDDTALIKAYDKAVASFKHA LKNGDICETSGKPKTTPKKKPAKKNKSQKKNTAASLQQWKVGDKCSAIWSEDG CIYPATIASIDFKRETCVVVYTGYGNREEQNLSDLISPICEVANNIEQNAQEN ENESQVSTDESENSRSPGNKSDNIKPKSAPWNSFLPPPPPPMPGPRLGPGKPGL KFNGPPPPPPPPPPPHLISCWLPPFPSGPPIIPPPPPICPDSLDDADALGSMI.I SWYMSGYHTGYYM

FIGURE 8

1 cetecegggcaccgtactgttccgctcccagaagccccgggcgccggaaglcgtcactcttaagaagggacg gggccccacgctgcgcacccgcgggtttgct ATG GCG ATG AGC AGC GGC GGC AGT GGT GGC GTC CCG GAG CAG GAT TCC GTG CTG TTC CGG CGC GGC ACA GGC CAG G E D S V L F aggtcgcagccagtgcagtctccctattagcgctctcagcacccttcttccggcccaactctccttccgca gtg acatgagltgtttltatttcttaccctttccag AGC GAT GAT TCT GAC ATT TGG GAT GAT ACA GCA CTG ATA AAA GCA TAT GAT AAA GCT GTG GCT TCA TTT AAG gtatgaaatgc I K A Y D K A V A S F K ttgnttagtcgttttcttattttclcgttattcatttggaaaggaattgataacatacgataaagtgttaa ${\tt aggtycLLtctgagglgacggagccttgagactagcttatagtagtaactgggttatgtcgtgacttttatt}$ etgtgcaccaccetgtaacatgtacatttttattectattttcgtag CAT GCT CTA AAG AAT GGT GAC ATT TOT GAA ACT TOG GGT AAA CCA AAA ACC ACA CCT AAA AGA AAA CCT GCT AAG AAG ANT AAA AGC CAA AAG AAG ANT ACT GCA GCT TCC TTA CAA CAG P Α Q K K N T A A taaaatgttgaggatttaacttcaaaggatgtctcattagtccttatttaatagtgtaaaatgtctttaact gttattt gcctgcaggtcgatcaaaacgagatgatagtttgccctcttcaaaagaaatgtgtgcatgtatatatctttg atttettligtag TGG AAA GTT GGG GAC AAA TGT TCT GCC ATT TGG TCA GAA GAC GGT TGC ATT TAC CCA GCT ACC ATT GCT TCA ATT GAT TTT AAG AGA GAA ACC TGT GTT GTG GTT TAC ACT GGA TAT GGA AAT AGA GAG GAG CAA AAT CTG TCC GAT CTA CTT TCC CCA ATC TGT GAA GTA GCT AAT AAT ATA GAA CAG AAT GCT CAA GAG P I C E V A N N aggatacaaaaaaaaaaaattcaatttctggaagcagagactagatgagaaactgttaaacagtatacaca gta ccaccgaggcaltaatittttcttaatcacaccctlataacaaaaacctgcatattttttctttttaaag AAT GAA AAT GAA AGC CAA GTT TCA ACA GAT GAA AGT GAG AAC TCC AGG TCT CCT GGA AAT ANA TCA GAT ANC ATC AAG CCC AAA TCT GCT CCA TGG AAC TCT TTT CTC CCT CCA CCA CCC CCC ATG CCA GGG CCA AGA CTG GGA CCA GGA AAG F atganagttttccaganaatagttaatgtcgggacatltaacctctctgttaactaatttgtagetctccca gtaaaccttct ${\tt caaatattctgggtaattattttatccltttggltttgagtcctttttaltcctatcatattgaaattggt}$ aagttaattttcctttgaaatattccttatag CCA GGT CTA AAA TTC AAT GGC CCA CCG CCG CCA CCG CCA CCA CCA CCC CAC TTA CTA TCA TGC TGG CTG CCT CCA TTT CCT P P P H L L S C W TCT GGA CCA CCA gtaagtaaaaaagagtataggttagattttgctttcacatacaatttgataatta S G P P ccagacittactilttgtttactggatataaacaatatcitttctgtctccag ATA ATT CCC CCA CCA CCT CCC ATA TGT CCA GAT TCT CTT GAT GAT GCT GAT GCT TTG GGA AGT ATG THA ATT TOA TGG TAC ATG AGT GGC TAT CAT ACT GGC TAT TAT ATG G S М ctcagcalcttttcctgacaatttttttglagttatgtgactttgtttggtaaatttataaaatactacttg gtaagtaatca

Figure 10

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tgaagcgttatagaagataactggcctcatttcttoaaaatatcaagtgttgggaaagaaaaaaggaagtgg aatggglaactettetegattaaaagttatgtaataaccaaatgeaatgtgaaatattttaetggaetettt

tykaaaaccatctagtakaagactyggytyggygtgggaggccagcacggtggtgaggcagttgagakaatt tgaatgtggattagattitgaatgatattggataattattggtaattttatggcctgtgagaagggtgttgt agtitataaaagactgtcltaatttycatacttaagcatttaggaatgaagtgttagagtgtcttaaaatgt ttcaaatggtttaacaaantgtatgtgaggcgtatgtgggcaaaatgttacagaatctaactggtggacatgg gtgltcaltgtaclgtttttttctatcttctatatgtttaaaagtatat aataaaaatattta

Figure 10 (Continued)

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Figure 11

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Figure 12

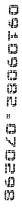
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GSGGGVPEQEDSVLPRRGTGQSDUSDIWDDTALIKAYDRAVASPKHALKNGDICETSGRPRTTPKRRPAK #Car-Cusperpacastanacentenedaecennicaecteennamenen esa-c -secte GGGGGGEQFINTVLYRRGTGQGDDSD1WDDTAL1KAYDKAVASFKHALKNGD1CETPDKPKGTARRKPAK 60 140 40 50 130 150 120 110 KNKSQKKNTAASLQQWKVGDKC5AIWSEDGCIYPATIASIDFKRETCVVVYTGYGNREEQNLSDLLSPIC ●のとはなられる・・・ ★ ●のだのとおりにない、ためはおけないない。 のけれたのかりははなりかないののなかないにはました。 ★ KNKSQKKNATTPLKQWKYGDKCSAVWSEDGCIYPATITSIDPKRETCVVYYTGYGNREEQNLSDLLSPTC 120 200 130 210 140 100 180 110 190 170 **EVANNIEQNAQENENESQVSTDESENSRSPGNKSDNIKPKSAPWNSPLPPPPPMPGPRLGPGKPGLKFNG** • 6-610 61200000000 - 6000000000 **EC **C-1864--E#6622-E# # EVANSTEQNTQENE--SQVSTDDSEHSSRSLRSKAHSKSRAAPWTSFLPPPPPPPPGSGLOPGKPGLKFNG 160 170 180 250 260 190 270 200 210 290 280 PPPPPPPPPPPHLLSCWLPPPPSGPPI1PPPPPICPDSLDDADALGSNLISWYMSGYHTGYYMGPRQNQRE PPPPPPLPPPPFLPCWMPPPPSGPP11PPPPP1BPDCLDDTDALGSML13WYMSGYHTGYYMGPRQNKKE 260 270 240 250 300 GRCSHSL e-666-CKCSHTN 290

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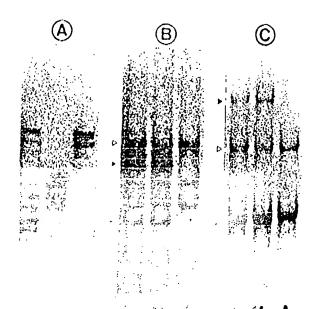


figure 14

